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JAPANESE PATENT OFFICE

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**C11D 3/37**  
**//(C11D 1/94 , C11D 1:28 , C11D 1:88 )**

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(71) Applicant: **KAO CORP**

(72) Inventor: **IMAMURA TAKASHI**  
**YAMASHINA SAHOKO**  
**KUMAGAI SEIICHI**  
**YAHAGI KAZUYUKI**

(54) **DETERGENT COMPOSITION**

(57) Abstract

**PURPOSE:** To provide a detergent excellent in detergency and various conditioning effects by combining an amido-amine amphoteric surfactant, sulfosuccinate anionic surfactant and two kinds of specific high-molecular silicones.

**CONSTITUTION:** A detergent composition is prepared by mixing an amido-amine amphoteric surfactant (A) [e.g.

N-lauroyl-N'-carboxymethyl-N'-(2-hydroxyethyl) ethylenediamine], a sulfosuccinate anionic surfactant (B) (e.g. sulfosuccinate of lauryl alcohol), polyoxyalkylene-modified organopolysiloxane (C) containing 3-30wt.% polyoxyalkylene groups in the molecule and capable of dispersing in water, and a nonvolatile polysiloxane (D) having a viscosity of 5,000cSt or more at 25°C except the component C. The detergent composition is preferably used in shampoo, etc.

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**D06F 35/00**

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(22) Date of filing: **03.10.90**

(71) Applicant: **MATSUSHITA ELECTRIC IND CO LTD**

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(54) **LAUNDRY NET**

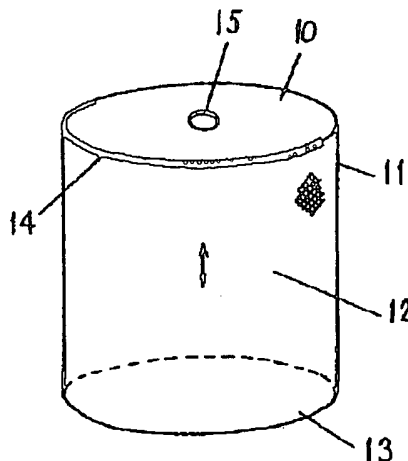
due to rotation during washing.

(57) Abstract

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PURPOSE: To prevent adhesion of powder detergent particles to the surface of a quilt or a blanket put in a laundry net by making the upper part of the laundry net with water permeable cloth which does not let powder detergent particles pass through.

CONSTITUTION: An upper part cloth 10 of a laundry net 11, made of net cloth, in which a quilt, a blanket, or other large clothing is put is made of water permeable cloth which rejects the passage of powder detergent particles. A quilt or a blanket is put in the laundry net 11, and a fastener 14 is closed. Then, the laundry net 11 is put in a washing cylinder in which detergent is put in in advance in a manner that the fastener 14 faces upward. When the upper part of the laundry net 11 is sufficiently sprayed with a water-detergent mixture, the upper part cloth 10, which is made of water permeable cloth which rejects powder detergent particles. Powder detergent particles that have not dissolved completely do not adhere to the quilt or the blanket in the laundry net 11. Since a small air vent hole 15 is provided, the laundry net 11 does not float even if air comes out of clothing containing air inside



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 1:62 , C11D 3:37 , C11D 1:22 ,  
 C11D 1:29 )

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(71) Applicant: KAO CORP

(72) Inventor:  
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 IWAMOTO YOSHIHIRO  
 ISHIKURA AKIKO  
 SAI FUMIO

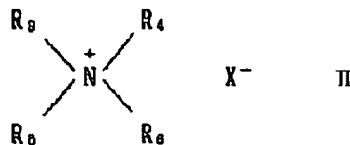
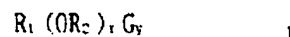
(54) LIQUID DETERGENT COMPOSITION FOR CLOTHES

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(57) Abstract

PURPOSE: To prepare the subject composition improved in detergency by mixing a specified alkyl glycoside, cationic surfactant, aminated silicone (derivative) and anionic surfactant.

CONSTITUTION: 5-70wt.% alkyl glycoside of formula I [wherein  $R_1$  is linear or branched 8-18C alkyl (phenyl) or alkenyl;  $R_2$  is 2-4C alkylene; G is a residue of a 5-6C reducing sugar; (x) is 0 to 5 on average; and (y) is 1 to 10 on average] is mixed with 0.5-10wt.% cationic surfactant of formula II [wherein at least one of  $R_3$  to  $R_6$  is 14-20C alkyl, and the rest are each 1-5C (hydroxy) alkyl or  $(CH_2CH_2O)_m-H$ ; (m) is such a number that the average number of ethylene oxide molecules added is 2 to 30 in the molecule; and x is halogen,  $CH_3SO_4$  or  $CH_3CH_2SO_4$ ], 0.05-5wt.% aminated silicon (derivative) having a molecular weight of 2,000 to 15,000 and 0.5-10wt.% of at least one anionic surfactant selected from alkylbenzene sulfates, etc.



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**A41D 31/00**

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**D06M 15/643**

(21) Application number: **03039384**

(71) Applicant: **KANEBO LTD**

(22) Date of filing: **07.02.91**

(72) Inventor: **TORIYAMA SHIGESATO  
IWATA YOSHIKO**

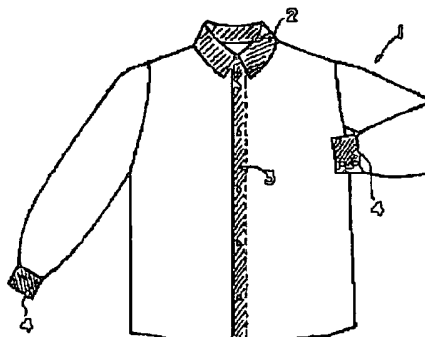
**(54) WASHING-RESISTANT SILK CLOTHES**

**(57) Abstract**

**PURPOSE:** To provide the subject clothes developing no wrinkle or no shortened yarn abnormality on its face fabric even if washed.

**CONSTITUTION:** The objective clothes can be obtained by using a special washable silk fabric as the face fabric treated with (A) an epoxy compound, (B) a silicone resin, and (C) an aminoplast resin and/or glyoxal resin and having  $\leq 3\%$  of washing shrinkage rate in the warp direction and  $\leq -3\%$  of that in the weft direction and by jointing core fabrics of  $-2.5$  to  $-0.1\%$  washing shrinkage rate in the weft direction to specified sites.

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 FAMILY 35  
 ACCESSION NUMBER: 95-190972 [25] WPIDS  
 DOC. NO. NON-CPI: N95-149840  
 DOC. NO. CPI: C95-088667  
 TITLE: Efficient cleaning of clothes for laundry - using  
 liq. detergent contg oxyethylene-oxypropylene  
 copolymer added type silicone oil(s) and liq  
 cleaning auxiliaries.  
 DERWENT CLASS: A26 A97 D25 X27  
 PATENT ASSIGNEE(S): (LIOY) LION CORP  
 COUNTRY COUNT: 1  
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
JP 07109486 A		950425	(9525)*		5	C11D001-82

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## APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 07109486 A		JP 93-258132	931015

PRIORITY APPLN. INFO: JP 93-258132 931015  
 INT. PATENT CLASSIF.:

MAIN: C11D001-82  
 SECONDARY: D06F039-02  
 AN 95-190972 [25] WPIDS  
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Cleaning clothes uses a continuous vertical inner-body-rotating washing machine having at least two separate washing vessels and operating by washing clothes in the first vessel, discharging the cleaning soln. in the vessel, transferring clothes to the next vessel to washing again and so on. It is characterised by addn. of (A) a liq. detergent contg. an oxyethylene-propylene copolymer added type silicone oil(s) and a surfactant(s) and (B) a liq. cleaning auxiliary(ies) based on a chelating and/or an alkali agent(s) to the vessels.

USE/ADVANTAGE - The method is useful for cleaning laundry. The method achieves high cleaning performance and efficiency.

In an example, the silicone oil of (A) is usually prepd. by adding an oxyethylene-oxypropylene copolymer to dimethyl siloxane. The blend ratio of the oil is usually 0.01-10 wt.%, pref. 0.1-5 wt.%. Available surfactants for (A) include nonionic, anionic and amphoteric. The blend ratio of surfactants is usually 3-50 wt.%, pref. 5-30 wt.%. Typical chelating agents include the phosphate, aluminosilicate, polycarboxylic and amino polycarboxylic types.  
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